BODY SECTION

This service manual has been prepared to provide SUBARU service personnel with the necessary information and data for the correct maintenance and repair of SUBARU vehicles.
This manual includes the procedures for maintenance, disassembling, reassembling, inspection and adjustment of components and diagnostics for guidance of experienced mechanics.
Please peruse and utilize this manual fully to ensure complete repair work for satisfying our customers by keeping their vehicle in optimum condition. When replacement of parts during repair work is needed, be sure to use SUBARU genuine parts.

All information, illustration and specifications contained in this manual are based on the latest product information available at the time of publication approval.

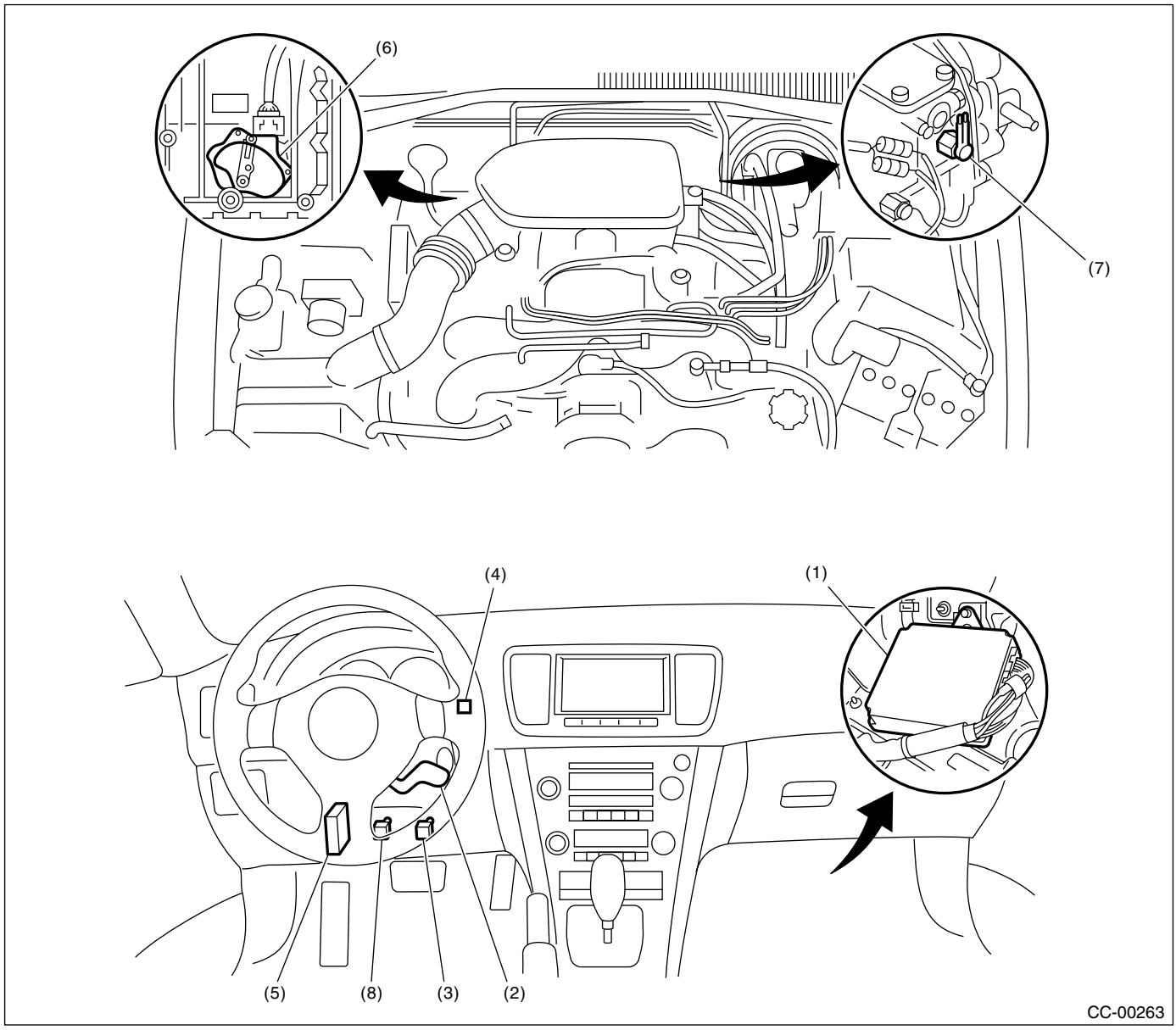
BODY SECTION

CRUISE CONTROL SYSTEM

CC

1. General Description

A: COMPONENT



(1) Engine control module (ECM)
(2) Cruise control command switch
(3) Stop light & brake switch
(4) Cruise indicator light & cruise set indicator light
(5) Transmission control module (TCM) (AT model)
(6) Inhibitor switch (AT model)
(7) Neutral position switch (MT model)
(8) Clutch switch (MT model)

B: CAUTION

• Before disassembling or reassembling parts, always disconnect the battery ground cable from battery. When repairing the audio, control module, etc. which are provided with memory functions, record the memory contents before disconnecting the ground cable from battery. Otherwise, the memory will be erased.
• Reassemble the parts in the reverse order of disassembly unless otherwise indicated.
• Adjust the parts to specifications specified in this manual.
• Connect the connectors securely during reassembly.
• After reassembly, ensure functional parts operate properly.

C: PREPARATION TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance and voltage.

2. Cruise Control Unit

A: NOTE

The control of cruise control system is carried out in Engine control module (ECM).

B: REMOVAL

<Ref. to FU(H4SO 2.0)-34, REMOVAL, Engine Control Module (ECM).> <Ref. to FU(H4SO 2.5)-36, REMOVAL, Engine Control Module (ECM).> <Ref. to FU(H4DOTC)-35, REMOVAL, Engine Control Module (ECM).> <Ref. to FU(H6DO)-34, REMOVAL, Engine Control Module (ECM).>

C: INSTALLATION

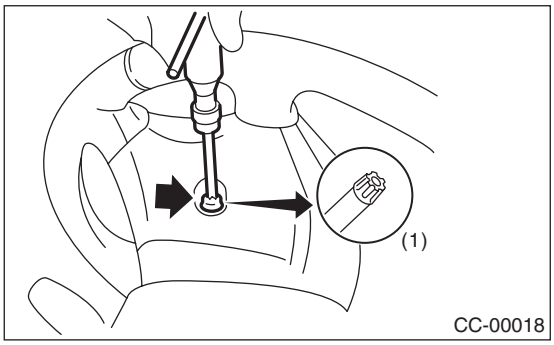
<Ref. to FU(H4SO 2.0)-34, INSTALLATION, Engine Control Module (ECM).> <Ref. to FU(H4SO 2.5)-36, INSTALLATION, Engine Control Module (ECM).> <Ref. to FU(H4DOTC)-35, INSTALLATION, Engine Control Module (ECM).> <Ref. to FU(H6DO)-34, INSTALLATION, Engine Control Module (ECM).>

3. Cruise Control Command Switch

A: REMOVAL

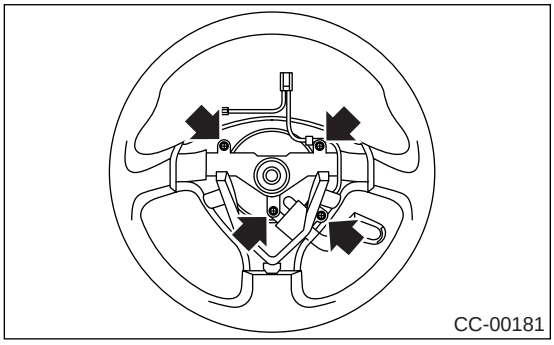
WARNING:
Before servicing, be sure to read the notes in the "AB" section for proper handling of the driver's airbag module. <Ref. to AB-4, CAUTION, General Description.>

1) Set the front wheels in straight ahead position.
2) Turn the ignition switch to OFF.
3) Disconnect the ground cable from battery and wait for at least 20 seconds before starting work.
4) Using TORX® BIT T30 (Tamper resistant type), loosen the two TORX® bolts which secure driver's airbag module.

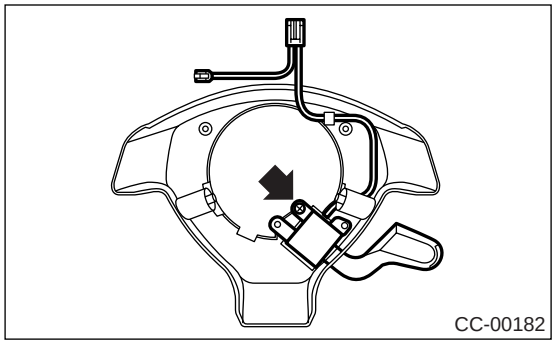


(1) TORX® BIT T30

5) Disconnect the airbag module connector on back of the airbag module.
6) Remove the steering wheel. <Ref. to PS-20, REMOVAL, Steering Wheel.>
7) Remove the four screws to remove the lower cover from steering wheel.



8) Remove one screw to remove the cruise control command switch from lower cover.

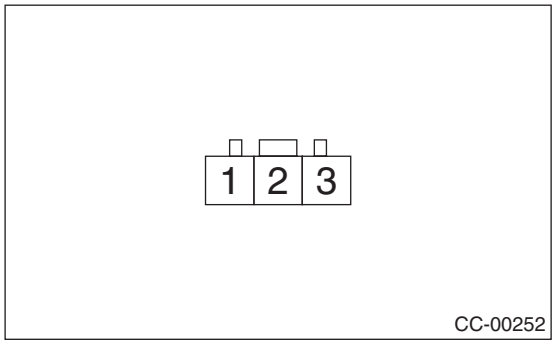


B: INSTALLATION

Install in the reverse order of removal.

C: INSPECTION

Measure the cruise control command switch resistance.



Switch	Area	Terminal No.	Standard
CANCEL SET/COAST RESUME/ ACCEL	ALL OFF	2 and 3	Approx. 4 kΩ
CANCEL	ON	2 and 3	Less than 1 Ω
SET/COAST	ON	2 and 3	Approx. 250 Ω
RESUME/ ACCEL	ON	2 and 3	Approx. 1500 Ω
MAIN	OFF	1 and 2	More than 1 MΩ
	ON	1 and 2	Less than 1 Ω

If NG, replace the cruise control command switch.

4. Stop Light and Brake Switch

A: REMOVAL

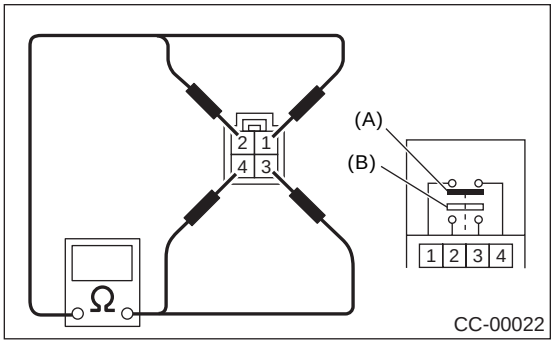
1) Disconnect the ground cable from battery.
2) Disconnect the connector from stop light & brake switch, and then remove the switch. <Ref. to BR-45, REMOVAL, Stop Light Switch.>

B: INSTALLATION

Install in the reverse order of removal.

C: INSPECTION

Measure the resistance of brake switch (A) and stop light switch (B).



Switch	Pedal	Terminal No.	Standard
Brake	Released	1 and 4	Less than 1 Ω
	Depressed	1 and 4	More than 1 MΩ
Stop Light	Released	2 and 3	More than 1 MΩ
	Depressed	2 and 3	Less than 1 Ω

If NG, replace the stop light & brake switch.

5. Clutch Switch

A: REMOVAL

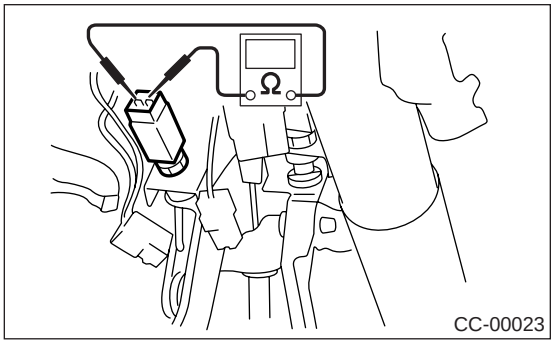
1) Disconnect the ground cable from battery.
2) Disconnect the connector from clutch switch, and then remove the switch. **<Ref. to CL-27,** DISASSEMBLY**, Clutch Pedal.>**

B: INSTALLATION

Install in the reverse order of removal.

C: INSPECTION

Measure the clutch switch resistance.



Switch	Pedal	Terminal No.	Standard
Clutch	Released	1 and 2	Less than 1 Ω
	Depressed	1 and 2	More than 1 MΩ

If NG, replace the clutch switch.

6. Inhibitor Switch

A: REMOVAL

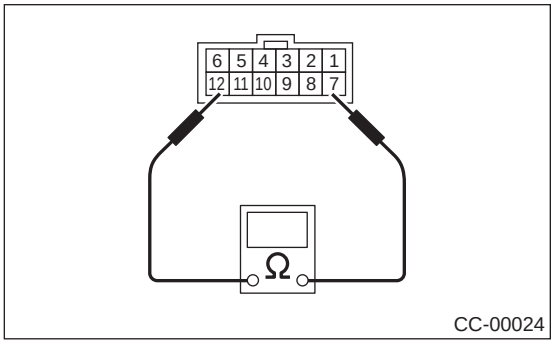
1) Disconnect the ground cable from battery.
2) Disconnect the connector from inhibitor switch, and then remove the switch. **<Ref. to 4AT-52,** REMOVAL**, Inhibitor Switch.>**

B: INSTALLATION

Install in the reverse order of removal.

C: INSPECTION

Measure the inhibitor switch resistance.



Selector lever position	Terminal No.	Standard
P	7 and 12	Less than 1 Ω
N		Less than 1 Ω
Except P and N		More than 1 MΩ

If NG, replace the inhibitor switch.

7. Neutral Position Switch

A: REMOVAL

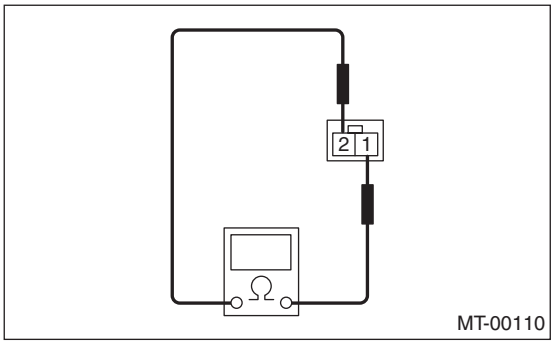
1) Disconnect the ground cable from battery.
2) Disconnect the connector from neutral position switch, and then remove the switch. <Ref. to 5MT-41, BACK-UP LIGHT SWITCH AND NEUTRAL POSITION SWITCH, REMOVAL, Switches and Harness.>

B: INSTALLATION

Install in the reverse order of removal.

C: INSPECTION

Measure the neutral position switch resistance.



Gear shift position	Terminal No.	Standard
Neutral position	1 and 2	Less than 1 Ω
Other positions		More than 1 MΩ

If NG, replace the neutral position switch.